



March 25, 2020

Unirac, Inc.  
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Attn: Engineering Services

Re: Engineering Certification for the Unirac Large Array (ULA) Photovoltaic Panel Support System

The Unirac Large Array (ULA) photovoltaic panel support system is a proprietary ground mounted system which supports photovoltaic panels.

Structural design is determined using the internal design tool developed by Unirac and covers a wide range of loading conditions and array sizes and allows the user to customize the input to match the specific project conditions.

We have reviewed the ULA photovoltaic panel support system methodology and internal tool and have determined that the design methodology is a rational approach and is in compliance with the structural requirements of the following Reference Documents:

Codes:

- ASCE/SEI 7-05, 7-10, 7-16 Minimum Design Loads for Buildings and Other Structures
- 2009, 2012, 2015, 2018 International Building Code, by International Code Council, Inc.

Other:

- 2015 Aluminum Design Manual, by The Aluminum Association, 2015
- Specification for Structural Steel Buildings ANSI/AISC 360-10
- UDM-0001 Unirac – Large Array (U-LA) Design Methodology, Revision 1

This letter certifies that the ULA photovoltaic panel support system methodology and internal tool are in compliance with the above Reference Documents.

If you have any questions on the above, do not hesitate to call.

Prepared by:  
PZSE, Inc. - Structural Engineers  
Roseville, CA

